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 In case that the application demands a high level of reliability, such as automotive,
 please contact a company representative for further information.

| APPLICABLE STANDARD | | | | |
|--|---|---|---------------------------|-----------------------|
| RATING | OPERATING TEMPERATURE RANGE | -40°C TO +85°C | STORAGE TEMPERATURE RANGE | -40°C TO +85°C |
| | POWER | 2 W CW | CHARACTERISTIC IMPEDANCE | 50 Ω (DC TO 4.0 GHz) |
| | OPERATING RELATIVE HUMIDITY | 95% MAX | USED CONNECTOR | BNC.P-J |
| SPECIFICATIONS | | | | |
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X |
| ELECTRIC CHARACTERISTICS | | | | |
| V.S.W.R. | MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 1.0 GHz | MAXIMUM OF 1.15 | X | X |
| | MUST BE UNDER THE STD.VALUE AT FREQUENCY 1.0 TO 4.0 GHz | MAXIMUM OF 1.25 | | |
| ATTENUATION | MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 4.0 GHz | 12.8 TO 15.2 dB. | X | X |
| MECHANICAL CHARACTERISTICS | | | | |
| VIBRATION | FREQUENCY 10 TO 2000 Hz, TOTAL AMPLITUDE 1.52 mm, 98 m/s ² AT 4 HOURS FOR 3 DIRECTIONS. | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| SHOCK | ACCELERATION : 490 m/s ² DURATION : 11 ms , HALF SINE WAVE 3 BOTH AXIAL DIRECTIONS, 3 TIMES EACH | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | |
| MOISTURE RESISTANCE | EXPOSE TO -10 TO 65 °C, 80 ~ 98 %, TOTAL 10 CYCLES(240 h). THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY. | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| THERMAL SHOCK | TEMPERATURE-58~-55→20~35→85~88→20~35°C TIME 30 → 5 → 30 → 5 min TEST 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO. | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| SALT ATMOSPHERE (CORROSION) | SALT SOLUTION CONCENTRATION 5% SALT WATER SPRAY FOR 48 HOURS. | NO CORROSION WHICH AFFECTS THE OPERATION OF COMPONENT. | X | - |
| | | | | |
| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| 0 | | | | |
| REMARK | | APPROVED | MT. SHIBUTANI | 12.01.27 |
| ROHS COMPLIANT | | CHECKED | KY. SHIMIZU | 12.01.27 |
| | | DESIGNED | TK. SAWAGUCHI | 12.01.26 |
| Unless otherwise specified, refer to MIL-STD-202. | | DRAWN | TK. SAWAGUCHI | 12.01.26 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC4-030736-02 | |
| HRS | SPECIFICATION SHEET | PART NO. | AT-514 (40) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL354-0173-5-40 | △ 1/1 |